Merging technology with management in a systematic approach to problem solving is the foundation of the technical systems management (TSM) program. Graduates focus on the application of engineering principles, the study of technology used in agriculture, and the integration of business concepts in food and agricultural industries.

Combining knowledge of business, applications engineering, systems management and science, the TSM program provides excellent preparation for careers at the interface of technical, business, and leadership areas within food, fiber, feed and fuel production, processing and manufacturing.

The Department of Agricultural and Biological Engineering (ABE) coordinates the Master of Science degree in TSM in cooperation with the Graduate College. The ABE department at Illinois has established itself as one of the leading departments of its kind in the nation. It is dedicated to integrating biology and engineering to enhance the quality of complex living systems.

The program can be completed in 16-months of full-time study on the Urbana-Champaign campus. Summer enrollment is required while completing the internship. A thesis is not required.

### CAREER OPPORTUNITIES
- Agricultural structures and controls specialist
- Appraiser
- Business development
- Technical consultant
- Engineering technician
- Farm manager
- Field sales engineer
- Project management
- Research and development specialist

### SPECIALIZATIONS
- Construction Management
- Environmental systems
- Mechanization, marketing and technology management systems
- Production systems
- Renewable energy systems

### FACULTY COORDINATORS
Dr. Richard Cooke & Dr. Paul Davidson
Department of Agricultural and Biological Engineering
rcooke@illinois.edu or pdavidso@illinois.edu
(217) 333-0944 or (217) 300-3755

Applications are submitted online. For additional information, visit the University of Illinois PSM website at psm.illinois.edu or email PSMdegree@illinois.edu.
ADMISSION REQUIREMENTS

- Bachelor’s degree from a regionally accredited U.S. Institution or a comparable degree from a recognized institution abroad,
- Grade point average of 3.0 or higher (4.0 scale) for the last 60 hours of undergraduate work and for any graduate work,
- Graduate Record Examination (GRE),
- Test of English as a Foreign Language (TOEFL) for non-native speakers of English, and
- Three (3) letters of recommendation.

SAMPLE PROGRAM OF STUDY

Year 1: Fall

Science Curriculum
- ABE 440  Applied Statistical Methods I
- TSM 435  Electrical Computer Control Systems
- TSM 501  Graduate Research I
- TSM 594  Graduate Seminar
- TSM 598  Foundations of TSM

Business Curriculum
- Two 2-hour courses in
  - Business Fundamentals, and
  - Management and Marketing
- PSM 501  Industry Seminar I

Year 1: Spring

Science Curriculum
- AGED 545  Research Methods and Design
- TSM 464  Engine and Tractor Power
- TSM 502  Graduate Research II
- TSM 594  Graduate Seminar
- TSM 596  Independent Study

Business Curriculum
- Two 2-hour courses in
  - Project Management, and
  - Finance
- PSM 502  Industry Seminar II

Summer Internship
- PSM 555  PSM Internship

Year 2: Fall

Science Curriculum
- ACE 435  Global Agribusiness Management
- ABE 459  Drainage and Water Management
- TSM 467  Precision Agriculture Technology
- TSM 594  Graduate Seminar
- TSM 596  Independent Study

Business Curriculum
- One 2-hour course in Science and Regulatory Policy
- PSM 503  Industry Seminar III

December Graduation

This is a sample curriculum; your courses will depend upon your individual interests and career plans. For additional course offerings, visit: http://psm.illinois.edu/technical-systems-management

Students have interned at:
- ADM,
- U of I Bollero Research Group,
- Advanced Cooling Therapy,
- Caterpillar,
- Infor,
- J. Walter Thompson,
- Country Financial,
- Purina,
- and others.

Graduates have been hired by:
- ADM Institute for the Prevention of Postharvest Loss,
- Carlsbad Technologies
- Infor,
- Dwyer Instruments,
- BioAnalytics,
- and others.